Lynx 450X Ultra Main Frame

Assembly Manual v1.2

Please read this manual fully before commencing assembly.

Congratulations on your purchase of the Lynx 450X Ultra Main Frame! This main frame adds a whole new dimension to your 450X. It allows you to transform from a push/pull plastic frame into twin carbon fiber plate and 7075 aluminum construction for superior strength and rigidity. Providing more direct servo to swash connection for ultra-crisp cyclic and overall flight performance, while being as lightweight as possible. Lynx 450X Ultra Main frame is a product of long time 3D pilot experience doing prolonged testing and perfecting. Every detail and parts compatibility was strictly checked and verified.

Features:

- Fully compatible with standard 450X parts and canopy.
- Ultra rigid and lightweight design.
- Bigger Battery options, (3S, 4S and 6S) 1300 to 2300mAh.
- Increased crash resistance. Designed to minimize crash damaged parts.
- Refined CoG for the ultimate 3D flight performance.
- Huge compatibility of servos and motors; multiple ESC and FBL mounting locations.
- Few parts account for ease of assembly, maintenance and repair.
- Clean and efficient industrial designed frame.
- Eliminate the push/pull elevator servo links and relocate from under the warm battery.

Lynx 450X Ultra Main Frame comes partially pre-assembly with an easy to read step-by-step user manual for your assembly enjoyment and support.

Items required from your donor 450X to complete assembly:

Standard complete tail boom assembly including tail rotor

Standard Main Shaft and Head assembly

Standard Main Gear Hub and tail belt assembly

Standard ESC or upgraded version - Lynx suggest 40A with switching BEC

Standard Motor or upgraded version - 29.5 mm Max outer case diameter

FBL unit

3x Standard Size Cyclic Servos or updated version

1x Standard Size Tail servo or updated version

Tools required for assembly:

Allen drivers: 1.5mm and 2mm

Philip Screw Driver (small cross tip) # 00

Thread lock - medium (242)

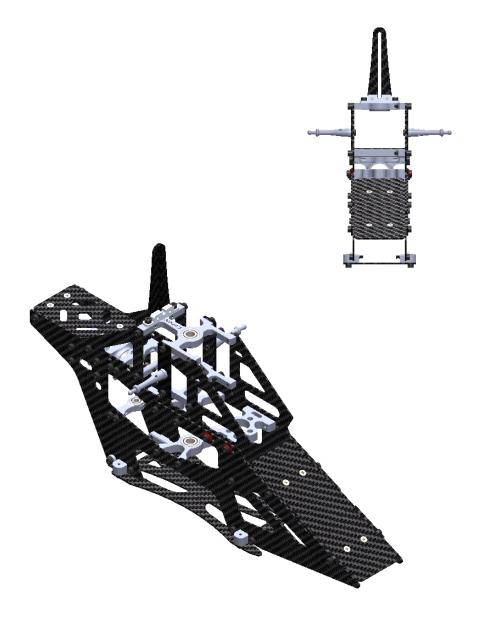
Final servo and radio setup:

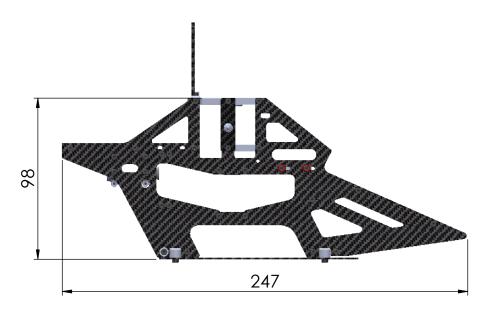
We recommend you complete the setup of your FBL unit again from scratch, including leveling all servo arms, setting zero degrees pitch, and all FBL travel adjustments, etc.

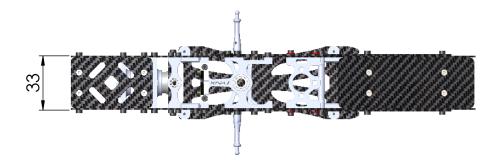
Good luck flying the new 450X with Lynx high performance upgrades system!

For any information or tips don't hesitate to contact us by e mail at service@lynxheli.com

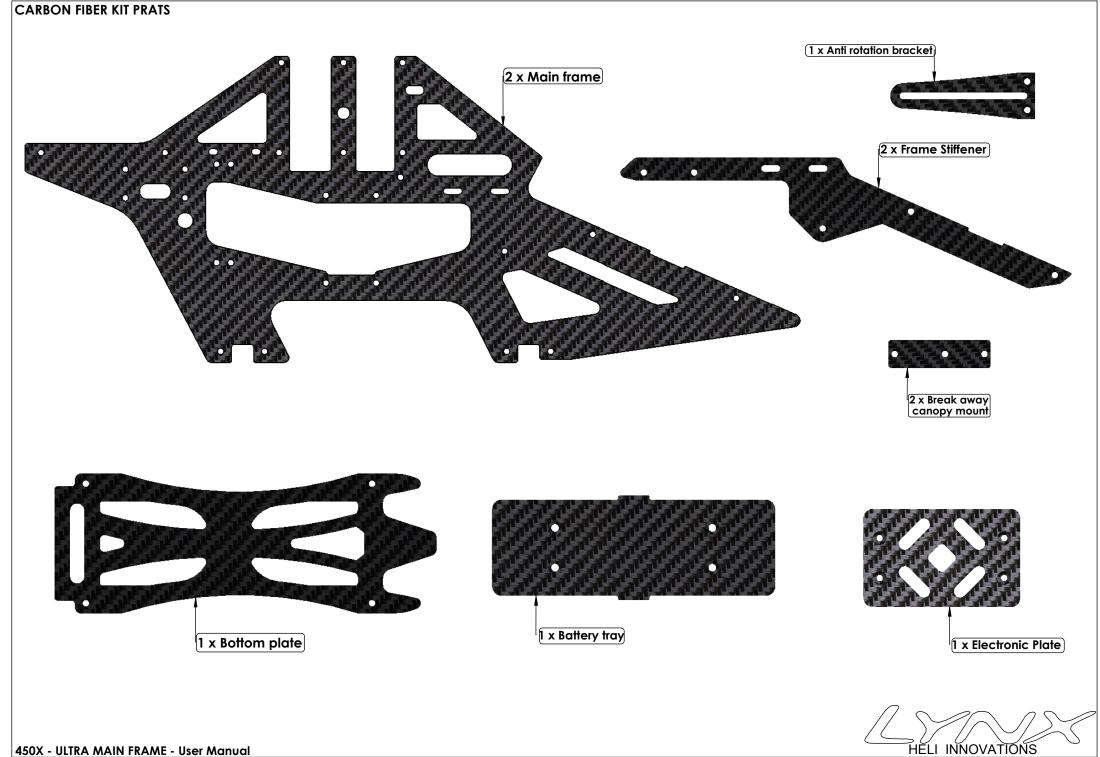
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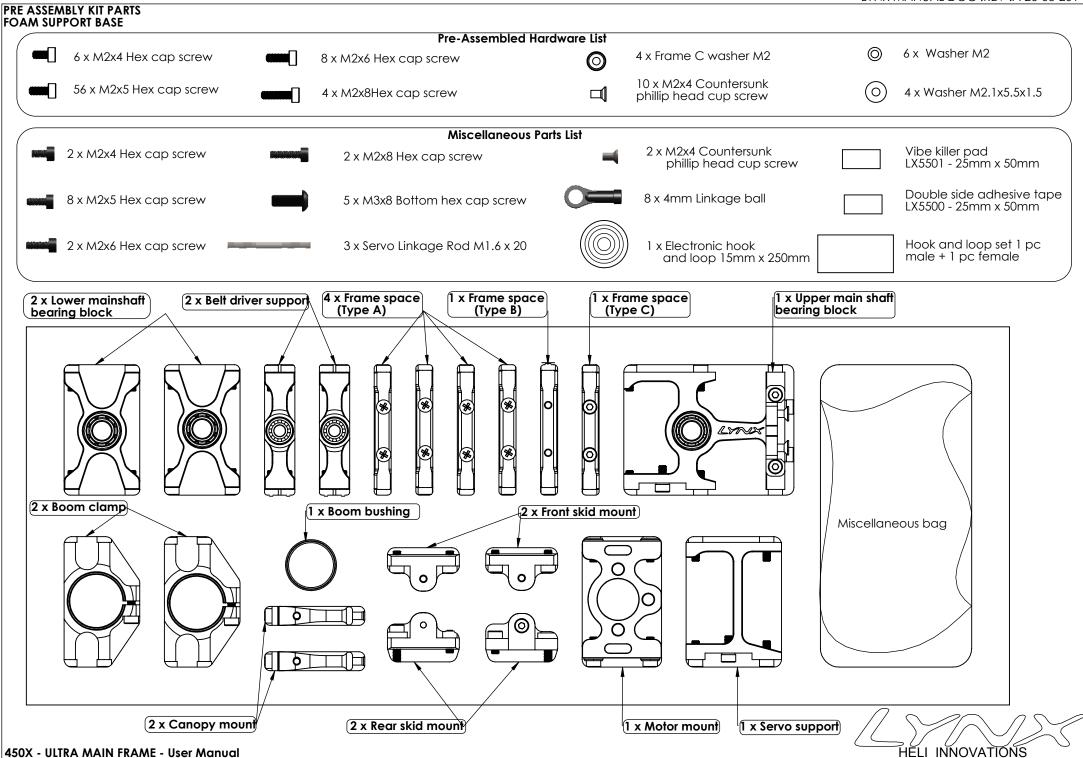










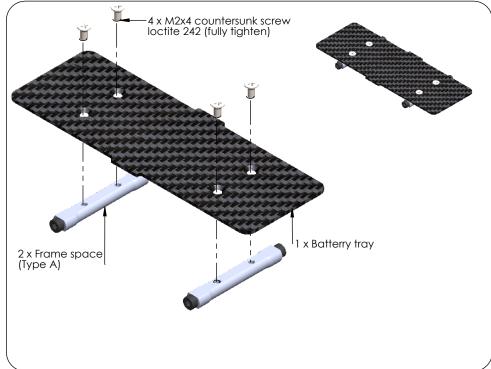


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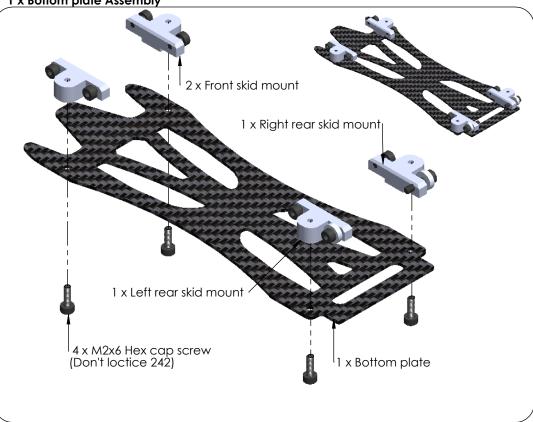
ASSEMBLY STEP 1 1 x Electronic tray Assembly 4 x M2x4 countersunk screw Loctite 242 (fully tighten) 1 x Electronic plate

^l2 x Frame spacer (Type A)

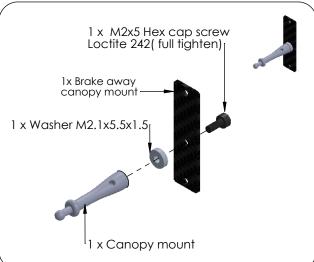
1 x Battery tray assembly



1 x Bottom plate Assembly



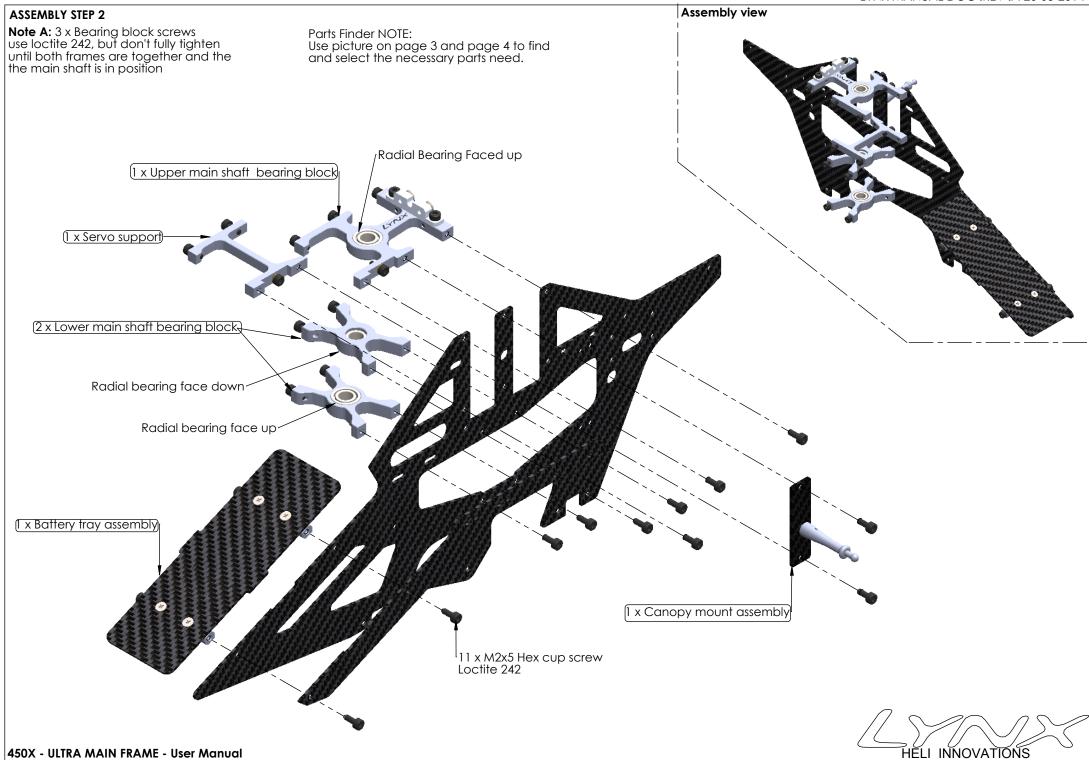
2 x Canopy mount

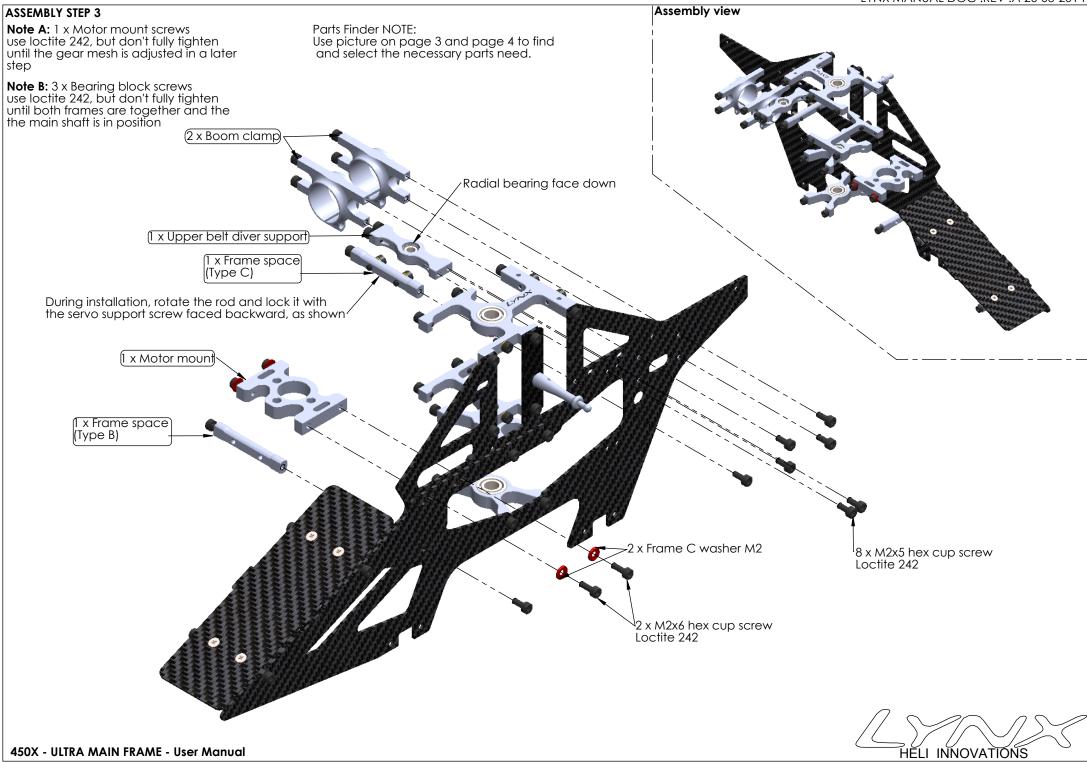


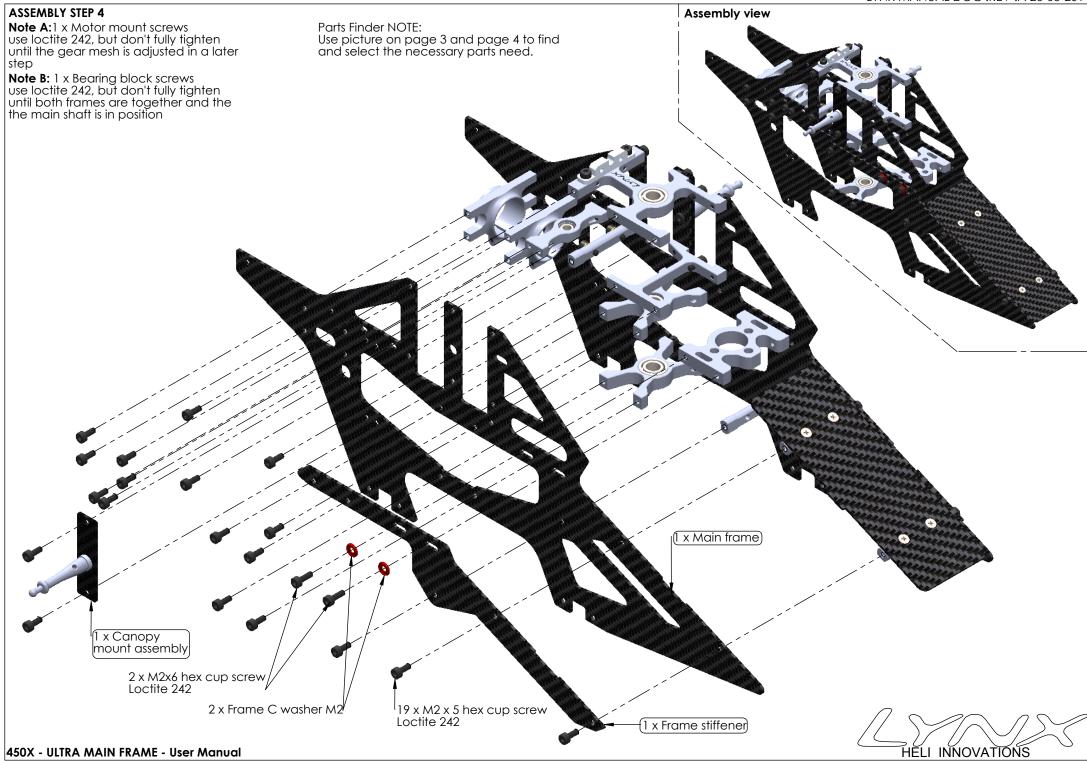
Parts Finder NOTE: Use picture on page 3 and page 4 to find and select the necessary parts need.

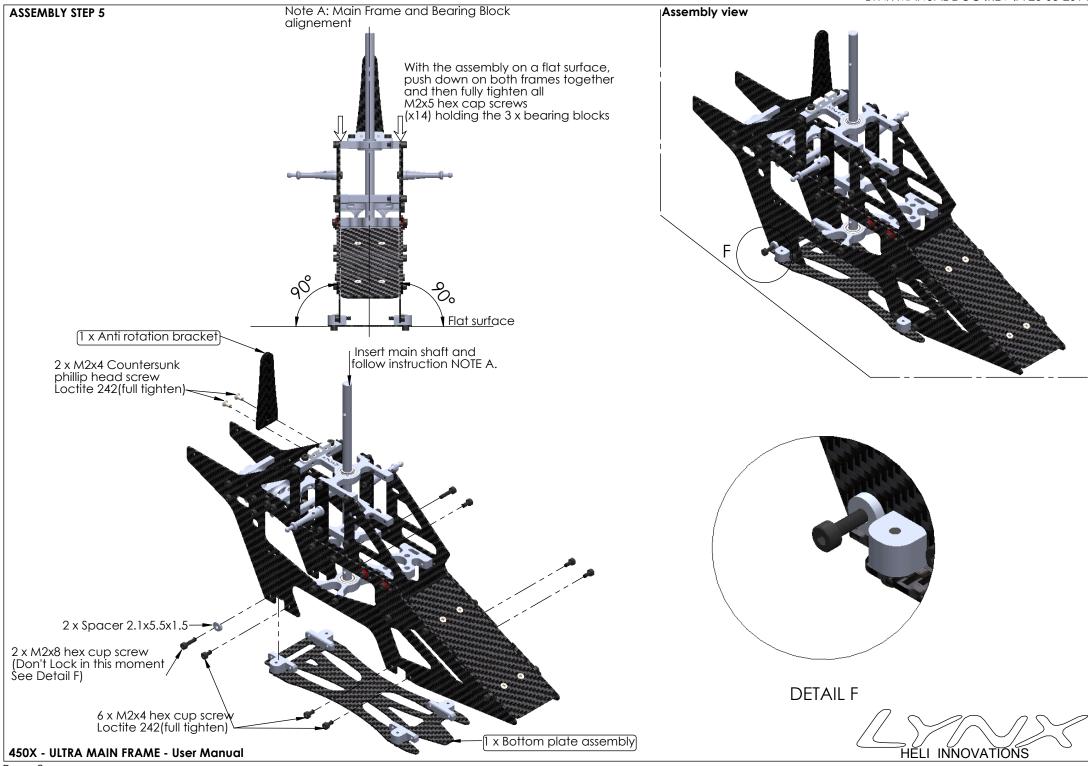


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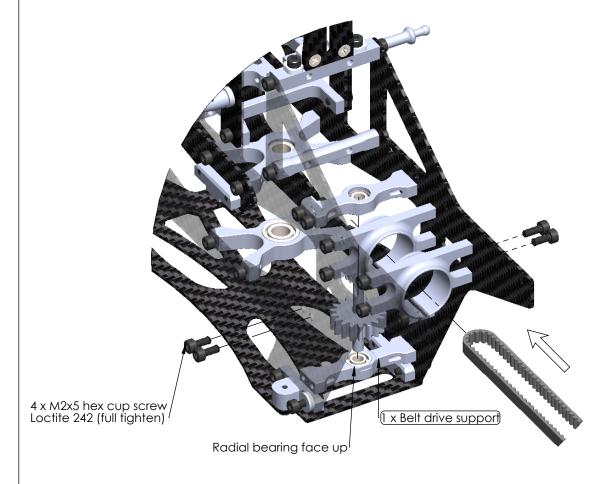


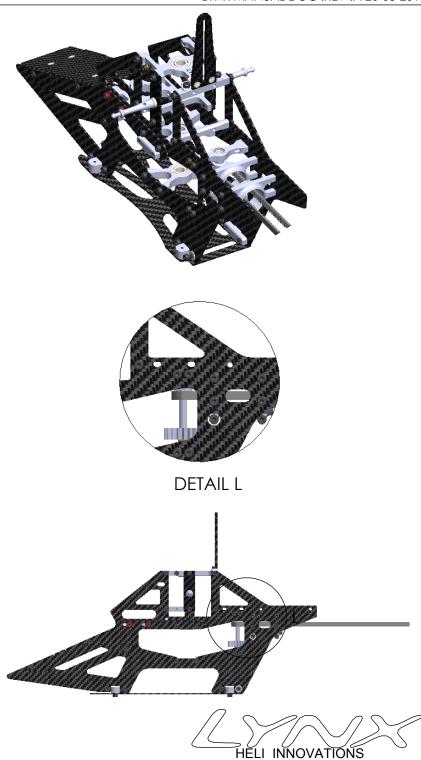


ASSEMBLY STEP 6

Belt installation tips

- Belt Installation Tips:
 1- Insert Tail Belt through the boom clamps
 2- Turn frame upside down and install tail
 drive shaft in through the belt.
 3- Install Lower Belt Drive Support





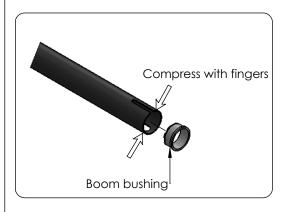
HELI INNOVATIONS

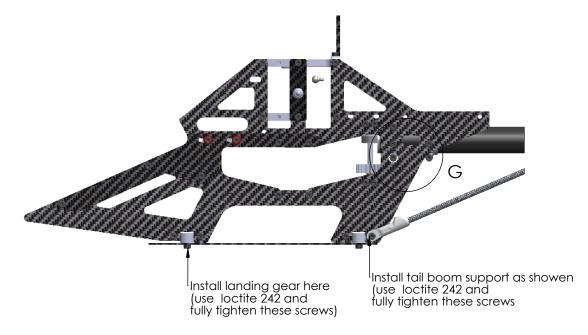
ASSEMBLY STEP 7

Installation boom

Boom bushing and boom install tips.

Before installing the bushing into the boom, pinch the tip of the boom going into the frame in order to hold the bushing in place temporarily until the boom clamps are tightened. At which point it will stay clamped in place. This is to add structure to the end of the boom where the cutouts are. You can reuse the bushing if you replace the boom.

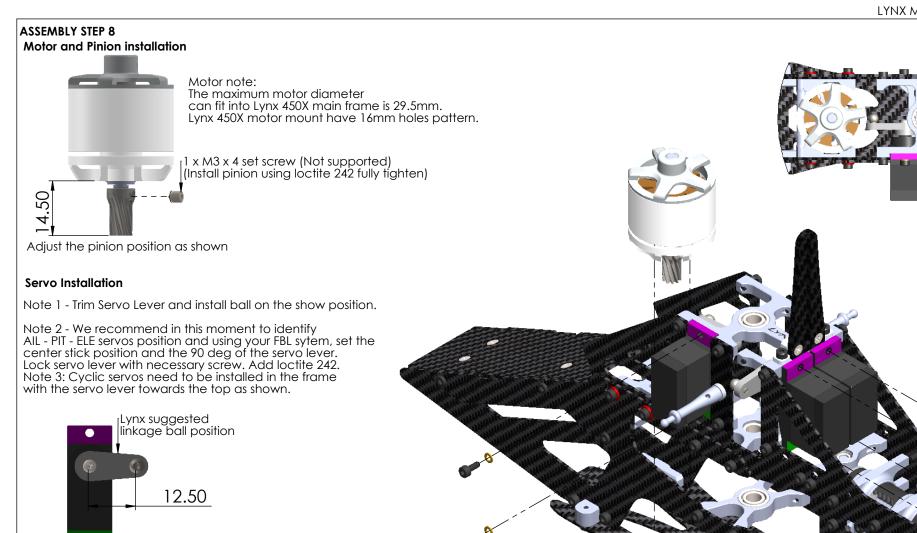






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See detail G



6x Washer M2

6 x M2x5 Hex cap screw

Be careful not to over tighten these screws and damage the servos

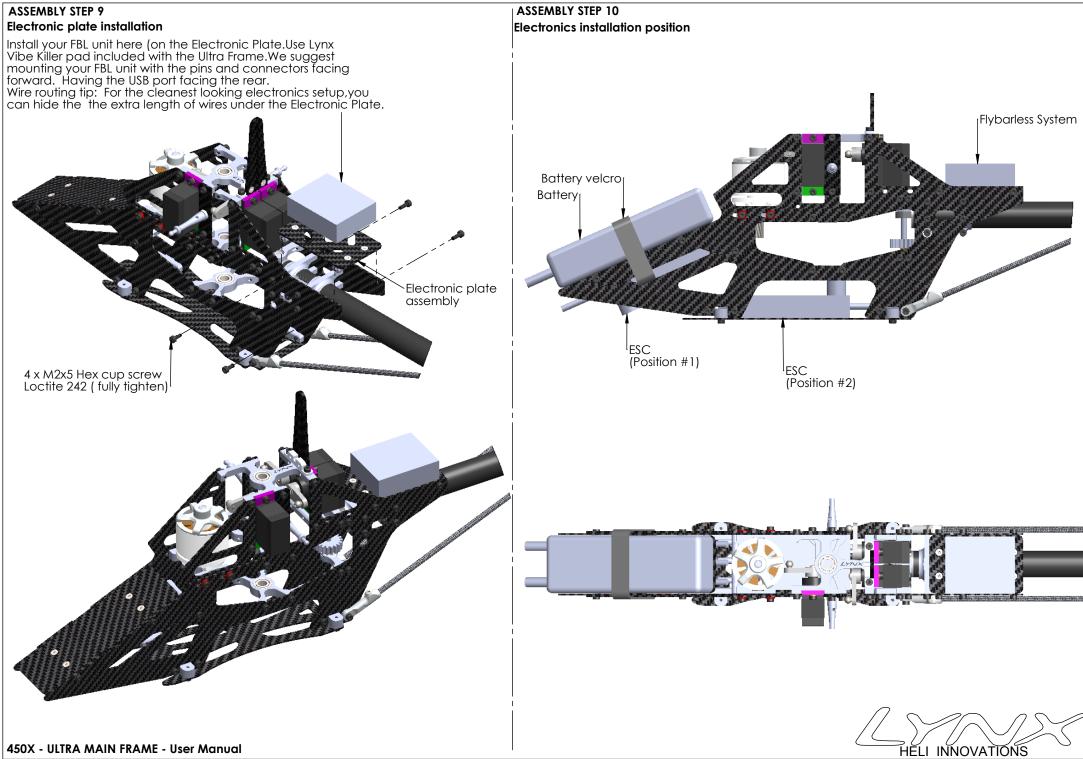
(use loctite 242)

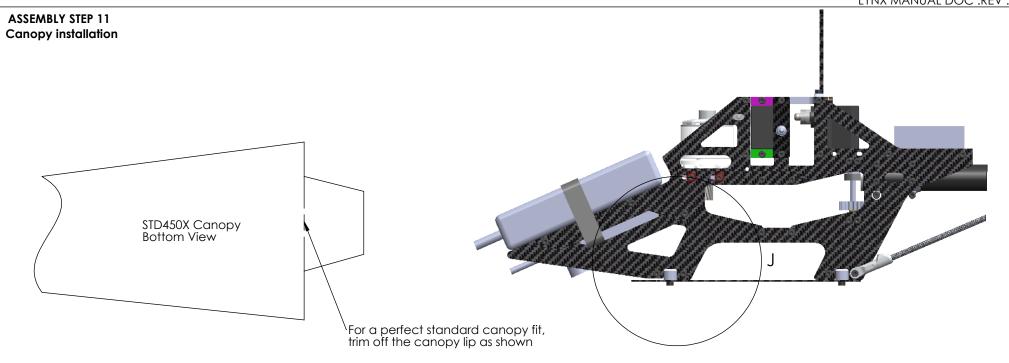
3 x Servo Linkage Rod M1.6 x 20

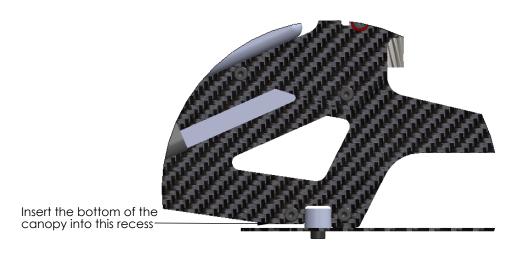
Ref. 40 mm

Install the Plastic Ball Links on the rod. Try to leave equal thread showing on each side, keeping the rod centered.

3 x M3 x 8 bottom hex cap screw (use a small amount of loctite 242, and tighten fully)







DETAIL J

HELI INNOVATIONS